

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A solid-state image pickup device ~~formed of~~ comprising:

a photoelectric conversion part on a semiconductor substrate,

said photoelectric conversion part having a photoelectric conversion region, [[and]]

a logic circuit part on [[a]] said semiconductor substrate,

said logic circuit part including a plurality of transistors to manipulate an electrical signal produced from said photoelectric conversion part,

~~and outputs a potential change caused by the charges generated in said photoelectric conversion region, comprising~~

a light shielding layer covering said [[the]] logic circuit part, and

a light shielding film defining a [[the]] region of beam incidence on said photoelectric conversion region,

wherein said ~~where the~~ light shielding film is provided at a height closer to said semiconductor substrate than said light shielding layer.

2. (original) The solid-state image pickup device as claimed in claim 1, wherein said light shielding film is located at an intermediate position between said light shielding layer and said photoelectric conversion region in the direction of beam incidence.

3. (original) The solid-state image pickup device as claimed in claim 1, wherein said light shielding film is provided so as to cover said photoelectric conversion part as well as to make the light shielding state continuous in the boundary part between said photoelectric conversion part and said logic circuit part.

4. (original) The solid-state image pickup device as claimed in claim 3 wherein said light shielding film and light shielding layer are connected in such a manner to make the light shielding state continuous in said boundary part.

5. (original) The solid-state image pickup device as claimed in claim 3, wherein said light shielding film and said light shielding layer have an overlapping part that can be overlapped in the plan view so as to make the light shielding state continuous in said boundary part.

6. (original) The solid-state image pickup device as claimed in claim 1, wherein said light shielding film covers said photoelectric conversion part by combining a plurality of layers.

7. (original) The solid-state image pickup device as claimed in claim 1, wherein said light shielding film defines the region of beam incidence on said photoelectric conversion region by combining a plurality of layers.

8. (original) The solid-state image pickup device as claimed in claim 6, wherein said plurality of light shielding films are provided so as to make the light shielding state continuous in their boundary parts.

9. (currently amended) The solid-state image pickup device as claimed in claim 8, wherein each of said plurality of light shielding films has an overlapping part that can be overlapped in the plan view so as to make [[the]] a light shielding state continuous in their boundary parts.

10. (original) The solid-state image pickup device as claimed in claim 6, wherein said plurality of light shielding films possess a portion having a boundary part with said light shielding layer and a portion that defines the region of beam incidence on said photoelectric conversion region provided at a position closer to said semiconductor substrate.

11. (currently amended) The solid-state image pickup device as claimed in claim 1, wherein said light shielding layer is formed of a material that has either low light transparency or high light absorbency such that its light shielding property is ~~sufficiently~~ high.

12. (original) The solid-state image pickup device as claimed in claim 1, wherein said light shielding film is manufactured in the same process as the manufacturing process of the logic circuit part.

13. (new) A solid-state image pickup device comprising:
a photoelectric conversion part converting incident light to an electrical charge and further converting said electrical charge into an electrical signal;

a logic circuit part receiving and handling said electrical signal,

said photoelectric conversion part and said logic circuit part being on a same semiconductor substrate;

a light shielding layer covering the logic circuit part; and

a light shielding film covering said photoelectric conversion part,

said light shielding film being provided at a height closer to said semiconductor substrate than said light shielding layer.

14. (new) The device as claimed in claim 13, wherein said solid-state image pickup device is a CMOS sensor.

15. (new) A solid-state image pickup device comprising:
an image signal part producing an analog signal in response to light incident to said image signal part;

a first circuit part producing a digital signal in response to said analog signal;

a second circuit part performing a signal processing operation on said digital signal,

said image signal part and said first and second circuit parts being formed on a same semiconductor substrate;

a first light shielding layer covering said image sensor part; and

a second light shielding layer covering said first and second circuit parts,

said first light shielding layer being provided closer to said semiconductor substrate than said second light shielding layer.

16. (new) The device as claimed in claim 15, wherein said image signal part includes a photoelectric conversion region generating an electrical charge in response to said light and a transistor circuit producing said analog signal in response to said electrical charge.